

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. **(Currently Amended)** A method of generating C code on the basis of Unified Modeling Language (UML) specifications, wherein the method comprising:
producing a detailed implementation model in UML code (UML model);
exporting an Extensible Markup Language (XML) Metadata Interchange (XMI)
file based on the detailed implementation model;
dispatching the XML file to a file generation engine tool, wherein the file
generation tool is Model in Action;
associating the file generation engine tool with a scripts parameterization
application; and
producing files in C language utilizing the file generation engine tool, wherein the
files include C files, H files, a generation report file, configuration management batch
files and compilation project files, wherein the generation report file includes the files of
generated C code, wherein the configuration management batch files are Clearcase
batch files for Clearcase scenarios, and wherein the configuration management batch
files automatically update the Clearcase table according to information contained in the
generation report file

~~a detailed implementation model is produced in UML code, that the model thus created is exported in the form of a file in the XMI language, that this XMI file is dispatched to a file generation engine which is the "Model In Action" tool, that this tool is associated with a scripts parameterization application, and that this tool is made to produce files in the C language, namely C files, H files, a generation report file, configuration management "batch" files and compilation project files.~~

2. (Previously Presented) The method as claimed in claim 1, wherein the C code generated covers 100% of the UML specification of the software, the whole generation spectrum being processed both statically and dynamically.

3. **(Currently Amended)** The method as claimed in claim 1, wherein the detailed implementation model is produced with the aid of a UML modeling tool.

4. **(Currently Amended)** The method as claimed in claim 3, wherein the producing the detailed implementation model ~~UML modeling tool~~ is produced utilizing RHAPSODY from the company I-LOGIX.

5. **(Currently Amended)** The method as claimed in claim 1, wherein the generation report file comprises the following information:

version number of ~~[[the]]~~ a reference report~~[[,]]~~;

version number of ~~[[the]]~~ a current report~~[[,]]~~;

designation of the UML model with its state and its version number[.];

designation of [[the]] software collections produced with their state and their version number[.];

designation of [[the]] generation scenarios with their state and their version number[.];

designation of [[the]] files generated with their state and their version number[.];

name of [[the]] a scenario in progress[.]; and

name of [[the]] generated text files of the scenario.

6. (Cancelled)

7. **(Currently Amended)** The method as claimed in claim 5, wherein [[the]] states of the files generated are comparison states with respect to those of a previous generation.

8. **(Currently Amended)** The method as claimed in claim 6, wherein the state of each file is one of the following:

new[.];

unmodified[.];

modified[.];

modified manually[.];

modified and modified manually[.]; and

eliminated.

9. **(Currently Amended)** The method as claimed in claim 2, wherein the generation report file comprises the following information:

a version number of [[the]] a reference report_{[[,]]};

a version number of [[the]] a current report_{[[,]]};

a designation of the UML model with its state and its version number_{[[,]]};

a designation of [[the]] software collections produced with their state and their version number_{[[,]]};

a designation of [[the]] generation scenarios with their state and their version number_{[[,]]};

a designation of the files generated with their state and their version number_{[[,]]};

a name of [[the]] a scenario in progress_{[[,]]}; and

a name of [[the]] generated text files of the scenario.

10. **(Currently Amended)** The method as claimed in claim 3, wherein the generation report file comprises the following information:

a version number of [[the]] a reference report_{[[,]]};

a version number of [[the]] a current report_{[[,]]};

a designation of the UML model with its state and its version number_{[[,]]};

a designation of [[the]] software collections produced with their state and their version number_{[[,]]};

a designation of [[the]] generation scenarios with their state and their version number[[,]];:

a designation of the files generated with their state and their version number[[,]];:

a name of [[the]] a scenario in progress[[,]]; and

a name of the generated text files of the scenario.

11. **(Currently Amended)** The method as claimed in claim 4, wherein the generation report file comprises the following information:

a version number of [[the]] a reference report[[,]];:

a version number of [[the]] a current report[[,]];:

a designation of the UML model with its state and its version number[[,]];:

a designation of [[the]] software collections produced with their state and their version number[[,]];:

a designation of [[the]] generation scenarios with their state and their version number[[,]];:

a designation of the files generated with their state and their version number[[,]];:

a name of [[the]] a scenario in progress[[,]]; and

a name of the generated text files of the scenario.